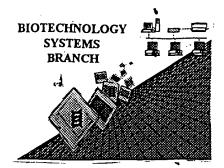
RAW SEQUENCE LISTING ERROR REPORT



0590

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/993,292	
Source:	0112	
Date Processed by STIC:	12/3/01	

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

DATE: 12/03/2001

TIME: 12:19:47

OIPE

Does Not Comply Input Set : A:\seqlist.txt Output Set: N:\CRF3\11212001\1993292.raw Corrected Diskette Needed Error on p. 5 4 <110> APPLICANT: James E. Galen University of Maryland 7 <120> TITLE OF INVENTION: USE OF CLY A HEMOLYSIN FOR EXCRETION OF 8 PROTEINS 10 <130> FILE REFERENCE: UOFMD.007A C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/993,292 C--> 12 <141> CURRENT FILING DATE: 2001-11-23 12 <150> PRIOR APPLICATION NUMBER: 60/252,516 13 <151> PRIOR FILING DATE: 2000-11-22 15 <160> NUMBER OF SEQ ID NOS: 19 17 <170> SOFTWARE: FastSEQ for Windows Version 4.0 19 <210> SEQ ID NO: 1 20 <211> LENGTH: 6271 21 <212> TYPE: DNA 22 <213> ORGANISM: Artificial Sequence 24 <220> FEATURE: 25 <223> OTHER INFORMATION: pSEC84 Expression Plasmid 27 <400> SEQUENCE: 1 28 gaattetgtg gtageacaga ataatgaaaa gtgtgtaaag aagggtaaaa aaaaccgaat 60 29 gcgaggcatc cggttgaaat aggggtaaac agacattcag aaatgaatga cggtaataaa 120 30 taaagttaat gatgatagcg ggagttattc tagttgcgag tgaaggtttt gttttgacat 180 31 tcagtgctgt caaatactta agaataagtt attgatttta accttgaatt attattgctt 240 32 gatgttaggt gettattteg ceatteegea ataatettaa aaagtteeet tgeatttaca 300 33 ttttgaaaca tctatagcga taaatgaaac atcttaaaag ttttagtatc atattcgtgt 360 34 tggattattc tgcatttttg gggagaatgg acttgccgac tgattaatga gggttaatca 420 35 gtatgcagtg gcataaaaaa gcaaataaag gcatataaca gatcgatctt aaacatccac 480 36 aggaggatgg gatccaaaat aaggaggaaa aaaaaatgac tagtattttt gcagaacaaa 540 37 ctgtagaggt agttaaaagc gcgatcgaaa ccgcagatgg ggcattagat ctttataaca 600 38 aatacetega eeaggteate eeetggaaga eetttgatga aaceataaaa gagttaagee 660 39 gttttaaaca ggagtactcg caggaagett etgttttagt tggtgatatt aaagttttgc 720 41 tcgtgacgca attactctca gcgtatattt tactatttga tgaatataat gagaaaaaag 840 42 catcagecea gaaagacatt eteattagga tattagatga tggtgteaag aaactgaatg 900 43 aagcgcaaaa atctctcctg acaagttcac aaagtttcaa caacgcttcc ggaaaactgc 960 44 tggcattaga tagccagtta actaatgatt tttcggaaaa aagtagttat ttccagtcac 1020 45 aggtggatag aattcgtaag gaagettatg eeggtgetge ageeggeata gtegeeggte 1080 46 cgtttggatt aattatttcc tattctattg ctgcgggcgt gattgaaggg aaattgattc 1140 47 cagaattgaa taacaggcta aaaacagtgc aaaatttctt tactagctta tcagctacag 1200 48 tgaaacaagc gaataaagat atcgatgcgg caaaattgaa attagccact gaaatagcag 1260 49 caattgggga gataaaaacg gaaaccgaaa caaccagatt ctacgttgat tatgatgatt 1320 50 taatgctttc tttattaaaa ggagctgcaa agaaaatgat taacacctgt aatgaatacc 1380 51 aacaacgtca tggtaagaag acgcttttcg aggttcctga cgtcgctagc tgataaccta 1440 52 gggccagcaa aaggccagga accgtaaaaa ggccgcgttg ctggcgtttt tccataggct 1500 53 ccgccccct gacgagcatc acaaaaatcg acgctcaagt cagaggtggc gaaacccgac 1560 54 aggactataa agataccagg cgtttccccc tggaagctcc ctcgtgcgct ctcctgttcc 1620

55 gaccetgeeg ettaceggat acetgteege ettteteeet tegggaageg tggegettte 1680 56 teatagetea egetgtaggt ateteagtte ggtgtaggte gttegeteea agetgggetg 1740

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/993,292

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\11212001\1993292.raw

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105	getgeeteee	ggagtttgtc	tcgagcactt	ttgttacccg	ccaaacaaaa	cccaaaaaca	4620
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Input Set : A:\seqlist.txt

Output Set: N:\CRF3\11212001\1993292.raw

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146 Arg Phe Lys Gln Glu Tyr Ser Gln Glu Ala Ser Val Leu Val Gly Asp
148 Ile Lys Val Leu Leu Met Asp Ser Gln Asp Lys Tyr Phe Glu Ala Thr
149 65
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150 Gln Thr Val Tyr Glu Trp Cys Gly Val Val Thr Gln Leu Leu Ser Ala
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154 Lys Asp Ile Leu Ile Arg Ile Leu Asp Asp Gly Val Lys Lys Leu Asn
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Input Set : A:\seqlist.txt

Output Set: N:\CRF3\11212001\I993292.raw

157		130					135					140					
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	145	GLY	шуз	пец	пец	150	пец	тэр	DCI	0111	155	1111	non	пор	1110	160	
		T.vc	Ser	Ser	Tur		Gln	Ser	Gln	Va 1		Ara	Tle	Ara	Lvs		
161	Giu	цуз	Jei	Ser	165	rne	GIII	Der	0111	170	изъ	nrg	110	my	175	Olu	
	ת 1 ת	Tur	λla	C117		λΊэ	7.1 a	Gly	Tlo		λla	C1 17	Dro	Dha		T.OU	
163	Ата	тут	нта	180	нта	Ата	Ата	GTÄ	185	vai	нта	СТУ	PIO	190	СТУ	Leu	
	т1.	Tlo	Cor		Cor	Tla	7 1 a	Ala		Wal	т10	Clu	Clv		Lou	Tla	
	TIE	TTE	195	тут	ser	TTE	нта	200	GTÄ	vaı	116	GIU	205	цуз	Leu	116	
165	Dwo	C1.,		7 0 0	7 00	7 ~~	т ом		Πh.~	Wa 1	Cln	Nan		Dho	Thr	Cor	
		210	Leu	ASII	ASII	Arg	215	Lys	TIII	Val	GIII	220	Pne	Pne	TIII	ser	
167			71 n	mhs	1701	T ***		Ala	7 00	T	N an) an	۸ 1 a	λl _n	Taro	
		ser	Ald	1111	Val	-	GIII	Ата	ASII	гуѕ	235	iie	ASP	нта	нта	240	
	225	T	T	31.	ml	230	т1.	3 7 -	3 1 -	т1.		61.	т1 о	T ***	mh		
	Leu	гàг	Leu	Ala		GIU	TTE	Ala	Ата		GTĀ	GIU	116	гаг		GIU	
171	ml	a 1	m 1	m1	245	Dl	m	**- 1		250	3	7	T	Ma.h	255	Com	
	Thr	GIU	THE		Arg	Pne	туг	Val		туг	ASP	ASP	ьeu		Leu	ser	
173	T	T	T	260	7.1.		T	T	265	T1.	7	mha	0	270	<i>c</i> 1	m	
	Leu	Leu		GTA	Ala	Ala	гăг	Lys	мес	тте	ASII	TILL		ASII	GIU	IAT	
175	a1 -	01	275	TT -	a1	T	T	280	T	nha	a 1	17.0.1	285	7 an	17-1	3] -	
			Arg	HIS	СТУ	ьуs	_	Thr	ьeu	Pne	GIU		PIO	ASP	Val	Ald	
177		290					295					300					
	Ser																
	305)	70 TI														
			EQ II														
			ENGTI) 2												
			YPE:		2 ÷		:-1 (70000									
					Arti	LIIC	Idl 3	Seque	ence								
			EATUI		מאמר	TON.	. (1)	onina	r nr	lmor							
						LION	. С10	oning	PI.	riner							
			EQUE					a t a s	a ota	artat	+++	taca	araar	raa :	actat	tagagg	60
								agato					igaa	Jaa	ac cg (Luguyy	102
	_		EQ II		_	ia a	Jugui	igut	9 999	jeaci	Lugu	CC					102
			ENGTE														
			YPE:		, 1.												
					Δrti	ifici	ial 🤉	Seque	ance.								
			EATUE		AL C.		Lai	ocque									
					רעשמר	י א רויי	· C16	oning	nri	imer							
			EQUE			LION	. С1	JIIII	, 12	LMCI							
						ta co	rtcad	rgaac	r ctc	rgaaa	aaac	atet	ttati	tac o	catoa	acgttg	60
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			EQ II			,				9	-900	•					
			ENGTE														
			YPE:		•												
					Arti	fici	ial 9	Seque	ence								
			EATUE		.11 01												
					RMAT	TON .	: C14	oning	ı pri	lmer							
			EQUE						,								
	(-×2-1														C O

215 cacggtaaga agacgctttt cgaggttcct gacgtcgcta gctgataacc taggtcatgt 60

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\11212001\I993292.raw

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VERIFICATION SUMMARY

DATE: 12/03/2001 PATENT APPLICATION: US/09/993,292 TIME: 12:19:48

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\11212001\1993292.raw

 $L\!:\!12$ $M\!:\!270$ $C\!:\!$ Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:257 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9

L:259 M:258 W: Mandatory Feature missing, <220> FEATURE: L:259 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:

L:525 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:19, CDS LOCATION: (0)...

(2253)

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09 993, 292
ATTN: NEW RULES CASES	: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARI
lWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
"bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

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